243 by plowing.

There is water on the land when it is dug and harrowed, but it is not flooded. Not all rice land is harrowed. If it is not harrowed, the same result is accomplished by further hoeing. The harrow (magusa in Japanese, maga in Okinawan) is partly a home made tool and looks like a large clumsily constructed rake. Essentially it is a piece of timber with a row of strong spikes. This timber ordinarily is made of pine, but other woods may be used. Twelve nails, spaced at about two inch intervals, are driven into the board. These nails or spikes, about 8 sun (almost 10 inches long), square at the head, and with a sharp point, are made by a blacksmith for about Yen 20 each. The harrow is drawn by cattle; two shafts, with a yoke over the animal's head complete the simple implement. The plow is used in the preparation of the field, but far more commonly, the work is done with a hoe.

In the fall and winter planting of rice, the seedlings remain in the seed bed for about 40 days. In the summer, the period is only 20 days and may be less. The winter shoots are from 7-8 inches long, the summer shoots from 4-7 inches. The length is important, for if the seedlings are too long, losses in transplanting will, according to Hanashiro farmers, increase to almost half. In rare instances, due to adverse conditions, seedlings in the seed bed reach 15-20 inches in length. The losses here are said to be considerable in transplanting.

The hoeing or the plowing and harrowing of a field is almost exclusively done by men. It is tiring, uncomfortable, and heavy work. It is much more common to see women hoeing the dry crop land. But transplanting is done by men, women, and the older children. A handful of seedlings in the bed is pulled out and bound with straw, grass, or a rush. There is a knack in pulling these out. They must be jerked quickly, but dexterously to avoid root damage. The bundle is tossed either into a central place or into the paddy field to be planted, if it is adjoining. In the latter case, the bunches are tossed to various parts of the paddy.

The seedlings are generally set out in rows. For this purpose, a string with small markers like buttons (shirushi) is used. These are 7 sun (about 8.4 inches) apart. Both the rows and the hills are 7 sun apart. Differences between rows and hills may vary considerably. In these localities, the distances were generally the same. The string is stretched from one end of the row to the other. Each seedling is planted at the interval indicated by the marker on the string. This method of planting is not universal. When there is little time, the seedlings might be scatter planted.

Another method of obtaining the checker-board pattern is by means of a home made hexagonal frame, the waku (literally, a reel or a frame). Each of the six sides is divided into nine squares, 7 sun on the side. The overall length is over six feet. The frame is set along the outside border, or at any desired starting point. When in place, the